

MEMORANDUM



Date: June 26, 2007

To: Honorable Chairman Bruno A. Barreiro
and Members, Board of County Commissioners

Agenda Item No. 8(R)3(C)

From: George M. Burge
County Manager

A handwritten signature in black ink, appearing to read "Burge", written over the printed name of George M. Burge.

Subject: Request to Advertise for Construction Engineering and Inspection Services for the South District Wastewater Treatment Plant High Level Disinfection - Contract No: E07-WASD-05

Recommendation

This Request to Advertise for consultant selection has been prepared by the Miami-Dade Water and Sewer Department (MDWASD) and is recommended for approval pursuant to Section 2-8.1 of the Code of Miami-Dade County. This project is one in a series of projects under the High Level Disinfection (HLD) Program to comply with Consent Order No. 03-1376 negotiated by Miami-Dade County and the Florida Department of Environmental Protection (FDEP) and to meet regulatory requirements resulting from a rule change implemented by the US Environmental Protection Agency (USEPA) to meet effluent quality standards for deep well disposal. Upon the completion of the entire project, the South District Wastewater Treatment Plant (SDWWTP) will be rated at 285 million gallons per day (MGD), a chart is attached showing the different upgrades that make-up the HLD Facility Project.

Scope

PROJECT NAME: Construction Engineering & Inspection Services for the SDWWTP High Level Disinfection Facility.

PROJECT NO: E07-WASD-05

CONTRACT NO: E07-WASD-05

PROJECT DESCRIPTION: The consultant is to provide construction engineering and inspection services which may include daily inspections, preparing daily logs, detailed review of contractor's updated and revised schedules, and prepare recommendations for approval, review schedule of values, contract interpretations and clarifications, process and authorize progress payments including allowance accounts and change orders, perform/oversee plant start-up services and certification of the wastewater plant, pipelines, complete/review operation and maintenance manuals, respond to "Requests for Information", and integrate consultant staff with MDWASD staff.

PROJECT LOCATION: 8950 SW 232 Street, Goulds, FL 33170

PRIMARY COMMISSION DISTRICT: District 8 Katy Sorenson

APPROVAL PATH: Board of County Commissioners

OCI A&E PROJECT NUMBER: E07-WASD-05

USING DEPARTMENT: Miami-Dade Water and Sewer Department

MANAGING DEPARTMENT: Miami-Dade Water and Sewer Department

Fiscal Impact / Funding Source

FUNDING SOURCE: **SOURCE**
WASD Revenue Bonds Sold, Plant Expansion Wastewater Fund, Future WASD Revenue Bonds and State Revolving Loan Wastewater Fund

PTP FUNDING: No

GOB FUNDING: No

CAPITAL BUDGET PROJECT:	<u>BUDGET PROJECT / DESCRIPTION</u>	<u>RTA ESTIMATE</u>
	96510240-SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION	<u>\$6,050,000.00</u>
	Book Page: 310 Funding Year: Adopted Capital Budget Book for 2006-2007 from Prior Years' Funding	

PROJECT TECHNICAL CERTIFICATION REQUIREMENTS:	<u>TYPE</u>	<u>CODE</u>	<u>DESCRIPTION</u>
	Prime	6.01	WATER AND SANITARY SEWER SYSTEMS - WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION SYSTEMS
	Prime	6.02	WATER AND SANITARY SEWER SYSTEMS - MAJOR WATER AND SANITARY SEWAGE PUMPING FACILITIES
	Prime	6.03	WATER AND SANITARY SEWER SYSTEMS - WATER AND SANITARY SEWAGE TREATMENT PLANTS
	Prime	17.00	ENGINEERING CONSTRUCTION MANAGEMENT
	Other	11.00	GENERAL STRUCTURAL ENGINEERING
	Other	12.00	GENERAL MECHANICAL ENGINEERING
	Other	13.00	GENERAL ELECTRICAL ENGINEERING
	Other	16.00	GENERAL CIVIL ENGINEERING

ESTIMATED CONTRACT PERIOD: 1825 Consecutive Calendar Days Calendar Days = 5 years. Construction Management and Inspection Services will be utilized during the construction phase of the SDWWTP HLD Facility.

ESTIMATED CONTINGENCY PERIOD: 183 Consecutive Calendar Days

IG FEE INCLUDED IN BASE CONTRACT: Yes

ART IN PUBLIC PLACES: No

BASE ESTIMATE: \$5,500,000.00

CONTINGENCY ALLOWANCE (SECTION 2-8.1 MIAMI DADE COUNTY CODE):	TYPE	PERCENT	AMOUNT	COMMENT
	PSA	10%	\$550,000.00	

TOTAL DEDICATED ALLOWANCE: \$0.00

COST ESTIMATE: \$6,050,000.00

Track Record / Monitor

EXPLANATION:

MINIMUM QUALIFICATIONS EXCEED LEGAL REQUIREMENTS: No

REVIEW COMMITTEE: MEETING DATE: 4/11/2007 SIGNOFF DATE: 4/11/2007

RESPONSIBLE WAGES: No

REVIEW COMMITTEE ASSIGNED CONTRACT MEASURES:	MEASURE	GOAL	COMMENT
	CBE	25.00% CBE	
	CWF	0.00% Not Applicable	

MANDATORY CLEARING HOUSE: No

CONTRACT MANAGER NAME/PHONE/EMAIL: John W. Chorlog, Jr. (786) 552-8102 jwcho01@miamidade.gov

PROJECT MANAGER NAME/PHONE/EMAIL: Patty David 786-552-8040 pattyd@miamidade.gov

Background

BACKGROUND:

Upgrades to the SDWWTP are required to be able to continue to provide reliable wastewater disposal service county-wide, to meet future growth system needs and to meet regulatory compliance requirements set by FDEP's Consent Order No. 03-1376 and USEPA's rule change which set new effluent quality standards for deep well disposal. The upgrades will meet the High Level Disinfection criteria for a 112.5 million gallon per day average daily flow and 285 MGD peak flow capacity at the SDWWTP.

This project is for construction engineering and inspection services for the SDWWTP's HLD Facility.

BUDGET APPROVAL
FUNDS AVAILABLE:


OSBM DIRECTOR

5-30-07
DATE

JS

APPROVED AS TO
LEGAL SUFFICIENCY:


COUNTY ATTORNEY

5-30-07
DATE


ASSISTANT COUNTY
MANAGER

5/31/07
DATE

CLERK DATE

DATE

Request to Advertise
Construction Engineering & Inspection Services for the
South District Wastewater Treatment Plant High Level Disinfection
Project No. E07-WASD-05

**BUDGET PROJECT AND
DESCRIPTION:**

96510240 – South District Wastewater Treatment Plant
High Level Disinfection

FUNDING SOURCE:

WASD Revenue Bonds Sold, Plant Expansion
Wastewater Funds, Future WASD Revenue Bond
State Revolving Loan

INDEX CODES:


EW641, EW642, EW643, EW644, EW623, EW622

**ASSISTANT DIRECTOR,
ENGINEERING:**

 5/14/07

EDUARDO A. VEGA, P.E. DATE

DEPT. BUDGET OFFICER

 5/14/07

PEDRO VELAR DATE

**ASSISTANT DIRECTOR,
FINANCE**

 5/14/07

DIANE CAMACHO DATE

**DEPUTY DIRECTOR,
OPERATIONS**

 5/14/07

JOSEPH A. RUIZ, JR. DATE

MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS

MIAMI-DADE WATER AND SEWER DEPARTMENT
CONSTRUCTION ENGINEERING & INSPECTION SERVICES (CE & I)
FOR THE SOUTH DISTRICT WASTEWATER TREATMENT PLANT HIGH LEVEL
DISINFECTION PROJECT
PROJECT NO. E07-WASD-05

The County Manager, Miami-Dade County, pursuant to Chapter 287.055, Florida Statutes, and Chapter 2, Sections 2-8.1 (as amended Ordinance 05-105) and 2-10.4 of the County Code and Administrative Order 3-39, announces that the Miami-Dade Water and Sewer Department (MDWASD) will require professional construction engineering and inspection services from one (1) qualified consultant during the construction of the South District Wastewater Treatment Plant High Level Disinfection (SDWWTP HLD) Project to supplement the current contract with Hazen & Sawyer and MDWASD construction management team.

Upgrades to the SDWWTP are required in response to the need for continued reliable wastewater customer service, upcoming capacity needs, and regulatory compliance specifically associated with Consent Order (03-1376) with the Florida Department of Environmental Protection. The MDWASD has undertaken upgrades to the SDWWTP to meet the requirements of High Level Disinfection criteria for a 112.5 million gallon per day (MGD) average daily flow, 285 MGD peak flow wastewater treatment plant.

The selected consultant will provide construction engineering and inspection services which may include daily inspections; preparing daily logs; detailed review of contractor's updated and revised schedules, and prepare recommendations for approval; review schedule of values; contract interpretations and clarifications; process and authorize progress payments including allowance accounts and change orders, perform/oversee plant start-up services and certification of the wastewater plant and pipelines; complete/review Operation and Maintenance manuals; respond to Request for Information, and integrate consultant staff with MDWASD staff. Consultant's staff will be integrated into a team currently composed of consultants and MDWASD staff.

The consultant may be asked to provide all or some construction engineering and inspection services including inspectors, construction managers and/or construction administration staff. The following fourteen (14) projects will be constructed over a five (5) year period beginning late 2007. The consultant's staff may be required for only a portion of the sixty month construction period.

- On-Site Hypochlorite Generation System (OSHG)
- Effluent Pump Station
- FOG Upgrades
- Electrical Distribution System
- Final Site Restoration
- Site Preparation
- Low Lift Transfer Pump Station
- Deep Bed Sand Filtration System
- Plant Process Control
- Oxygenation Train # 7
- Final Clarifiers and Interim Improvements

- Yard Piping
- Chlorine Contact Chambers
- Temporary Field Office and Support Facilities

MDWASD will determine how the various components of the project are put together for contract bidding. The consultant will be expected to provide construction engineering and inspection services to work on any of the noted projects. The total estimated construction cost \$505 million.

The MDWASD intends to retain one qualified firm under a non-exclusive Professional Services Agreement. Any firm that participated on the design of the SDWWTP HLD can only participate on this project as a subconsultant. The consultant is required to have experience with the design, construction management and startup services for major wastewater treatment plant upgrades. The term of the contract is for a five year period. Maximum compensation is five million five hundred thousand (\$5,500,000), plus contingency in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained consultant. The County reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion. The consultant coordinator for this project is _____ who may be contacted via e-mail at _____ or fax at _____ with copy to the Clerk of the Board.

TECHNICAL CERTIFICATION REQUIREMENTS

Prime

- 6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems
- 6.02 Major Water and Sanitary Sewage Pumping Facilities
- 6.03 Water and Sanitary Sewage Treatment Plants
- 17.00 Engineering Construction Management

Prime and/or Subconsultants

- 11.00 General Structural Engineering
- 12.00 General Mechanical Engineering
- 13.00 General Electrical Engineering
- 16.00 General Civil Engineering

BREAKDOWN LIST

	CBE	CBE %
6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems	10%	
6.02 Major Water and Sanitary Sewage Pumping Facilities	10%	5%
6.03 Water and Sanitary Sewage Treatment Plants	15%	5%
11.00 General Structural Engineering	5%	5%
12.00 General Mechanical Engineering	5%	5%
13.00 General Electrical Engineering	5%	
16.00 General Civil Engineering	10%	5%
17.00 Engineering Construction Management	40%	
Total	100%	25%

BUDGET PROJECT 96510240

Project Title: 96510240-SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION

Project Desc: Construct treatment facilities for high-level disinfection to meet regulatory requirements

Project \$\$	<u>Start:</u>	<u>End:</u>	<u>Prior:</u>	<u>06-07:</u>	<u>07-08:</u>	<u>08-09:</u>	<u>09-10:</u>	<u>Total:</u>
(\$\$ in 000's)	10/1/2002	9/30/2009	16,602	18,515	108,455	197,875	148,952	505,538

Project Type: Capital

CDPWeb Project Milestones (\$ IN 000'S)

<u>Milestone:</u>	<u>Start:</u>	<u>End:</u>	<u>Prior:</u>	<u>06-07:</u>	<u>07-08:</u>	<u>08-09:</u>	<u>09-10:</u>	<u>Total:</u>
Planning/Design	N/A	N/A	1,511	1,685	9,868	18,005	13,553	46,000
Construction	N/A	N/A	15,091	16,830	98,587	179,870	135,399	459,538

CDPWeb Project Revenue (\$ IN 000'S)

<u>Revenue:</u>	<u>Start:</u>	<u>End:</u>	<u>Prior:</u>	<u>06-07:</u>	<u>07-08:</u>	<u>08-09:</u>	<u>09-10:</u>	<u>Total:</u>
Wastewater Connection	N/A	N/A	28,220	3,838	19,883	16,902	11,361	82,774
State Revolving Loan	N/A	N/A	0	0	0	55,000	45,000	100,000

EXIT

Current Contracts for Project 96510240

<u>Dept</u>	<u>ContractNo</u>	<u>Contract Name</u>	<u>RTA Budget Allocation</u>	<u>Award Budget Allocation</u>	<u>CIIS Award</u>
WS	E07-WASD-05	Construction Engineering & Ins	\$6,050,000.00	\$0.00	\$0.00

There are no Sites for Project 96510240

8

STRATEGIC AREA: Neighborhood and Unincorporated Area Municipal Services
DEPARTMENT: Water and Sewer

***** FUNDED PROJECTS *****
(dollars in thousands)

SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION

PROJECT # 96510240

DESCRIPTION: Construct treatment facilities for high level disinfection to meet regulatory requirements

LOCATION: 8950 SW 232 St

Unincorporated Miami-Dade County

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

DISTRICT LOCATED: 8

DISTRICT(s) SERVED: Systemwide

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	28,220	3,838	19,883	16,902	11,361	2,570	0	0	82,774
State Revolving Loan Wastewater Program	0	0	0	55,000	45,000	0	0	0	100,000
WASD Revenue Bonds Sold	94,462	0	0	0	0	0	0	0	94,462
Future WASD Revenue Bonds	0	0	0	223,702	0	0	0	4,600	228,302

TOTAL REVENUE:	122,682	3,838	19,883	295,604	56,361	2,570	0	4,600	505,538
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EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	1,511	1,685	9,868	18,005	13,553	959	0	419	46,000
Construction	15,091	16,830	98,587	179,870	135,399	9,580	0	4,181	459,538

TOTAL EXPENDITURES:	16,602	18,515	108,455	197,875	148,952	10,539	0	4,600	505,538
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SOUTH DISTRICT WASTEWATER TREATMENT PLANT EXPANSION - PHASE III

PROJECT # 9655481

DESCRIPTION: Expand the South District Wastewater Plant and injection wells; and install emergency generators

LOCATION: 8950 SW 232 St

Unincorporated Miami-Dade County

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

DISTRICT LOCATED: 8

DISTRICT(s) SERVED: Systemwide

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	7,000	0	0	1,000	1,000	3,000	2,000	0	14,000
Future WASD Revenue Bonds	0	0	0	0	0	0	60,000	21,000	81,000

TOTAL REVENUE:	7,000	0	0	1,000	1,000	3,000	62,000	21,000	95,000
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EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	0	0	0	136	318	637	2,912	4,641	8,644
Construction	0	0	0	1,364	3,182	6,363	29,088	46,359	86,356

TOTAL EXPENDITURES:	0	0	0	1,500	3,500	7,000	32,000	51,000	95,000
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Dept. of Business Development
Project Worksheet

Project/Contract Title: CONSTRUCTION ENGINEERING AND INSPECTION SERVICES FOR THE SOUTH DISTRICT WASTEWATER TREATMENT PLANT (SDWWTP) HIGH LEVEL DISINFECTION (HLD)

RC Date: 04/11/2007
1-08

Project/Contract No: E07-WASD-05

Funding Source:

Item No:

Department: WATER & SEWER DEPARTMENT

WATER & SEWER REVENUES

Estimated Cost of Project/Bid: \$5,500,000.00

Resubmittal Date(s):

Description of Project/Bid: TO ESTABLISH A CONTRACT TO EMPLOY AN ENGINEERING FIRM TO PROVIDE CONSTRUCTION ENGINEERING AND INSPECTION SERVICES DURING THE CONSTRUCTION OF THE SOUTH DISTRICT WASTEWATER TREATMENT PLANT (SDWWTP) HIGH LEVEL DISINFECTION (HLD). THESE SERVICES MAY ALSO INCLUDE DAILY INSPECTIONS, PREPARING DAILY LOGS, DETAILED REVIEW OF CONTRACTOR'S UPDATED AND REVISED SCHEDULES, THE PREPARATION OF RECOMMENDATIONS FOR APPROVAL, REVIEWING SCHEDULE OF VALUES AND CONTRACT INTERPRETATIONS AND CLARIFICATIONS (AMONGST OTHER FUNCTIONS).

Contract Measures Recommendation

Measure	Program	Goal Percent
Goal	CBE	25.00%

Reasons for Recommendation

This project meets all the criteria set forth in A.O. 3-32, Section V

Funding source: Water and Sewer Revenues

SIC 871 - Architectural and Engineering Services

Analysis for Recommendation of a Goal

Subtrade	Cat.	Estimated Value	% of Items to Base Bid	Availability
W & S SEWER SYS-MAJOR WATER & SEWER PUMPING FACILI	CBE	\$275,000.00	5.00%	34
W & S SEWER SYS-W & S SEWAGE TREATMENT PLANT	CBE	\$275,000.00	5.00%	13
GENERAL STRUCTURAL ENGINEERING	CBE	\$275,000.00	5.00%	31
GENERAL MECHANICAL ENGINEERING	CBE	\$275,000.00	5.00%	24
GENERAL CIVIL ENGINEERING	CBE	\$275,000.00	5.00%	56
Total		\$1,375,000.00	25.00%	

Living Wages: YES ☐ NO ☒

Responsible Wages: YES ☐ NO ☒

Ordinance 90-143 is applicable to all construction projects over \$100,000 that do not utilize Federal Funds

REVIEW COMMITTEE RECOMMENDATION

Tier 1 Set Aside _____

Set Aside _____ Level 1 _____ Level 2 _____ Level 3 _____

Trade Set Aside (MCC) _____ Goal 25% Bid Preference _____

No Measure _____ Deferred _____ Selection Factor _____

 Chairperson, Review Committee

4.11.07
Date

County Manager

Date

SDWWTP High Level Disinfection (HLD) 285 mgd- Bid Packages

